

Flow Cytometry Core Grant Information

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Data acquisition is performed on the following instruments:

Becton Dickinson LSR II SORP, San Jose, CA

Five lasers:

BLUE (Ar488)

- A 670LP 695/40 PE-Cy5, PerCP-Cy5.5, PE-Alexa700, PerCP
- B 505LP 515/20 FITC, Calcein, CFSE, Alexa488, EGFP
- C 488/10 SSC** NO FLUORESCENCE ON THIS DETECTOR

RED (639 HeNe)

- A 755LP 780/60 APC-Cy7, Alexa750
- B 690LP 730/45 Alexa700, APC-Alexa700
- C 660/20 APC, Alexa633, Alexa647

GREEN (532)

- A 735LP 780/60 PE-Cy7
- B 600LP 610/20 PE-Tx Red, Propidium Iodide, Alexa594, 7AAD, PE-Cy5
600LP 660/20 PE-Alexa610
- C 575/26 PE, DSRed

UV (355 HeCd)

- A 505LP 525/50 Indo-1 (Blue)
- B 450/50 Hoechst, Alexa350, Live/Dead Blue, DAPI, Indo-1 (Violet)

Violet (405)

- A 535LP 560/40 Pacific Orange
- B 450/50 Pacific Blue, AmCyan, BD Horizon V450

Becton Dickinson FACSria II SORP, San Jose, CA

Five lasers:

BLUE (488)

- A 685LP 710/50 PE-Alexa700
670LP 695/40 PerCP-Cy5.5, PerCP
- B 505LP 530/30 FITC, Calcein, CFSE, Alexa488, EGFP
- C 488/10 SSC** NO FLUORESCENCE ON THIS DETECTOR

RED (640)

- A 755LP 780/60 APC-Cy7, Alexa750, APC-H7
- B 690LP 730/45 Alexa700, APC-Cy5.5
- C 670/30 APC, Alexa633, Alexa647

YELLOW-GREEN (561)

- A 755LP 780/60 PE-Cy7

- B 635LP 660/20 PE-Cy5, 7AAD
- C 582/15 PE, Propidium Iodide
610/20 mCherry, PE-TxRed, PE-Alexa610, DsRed (RFP)

UV (355)

- A 505LP 530/30 Indo-1 (Blue)
- B 450/50 Hoechst, DAPI, Alexa350, Live/Dead Blue, Indo-1 (Violet)

Violet (405)

- A 630LP 660/40 Qdot655
- B 595LP 605/40 Qdot605
- C 570LP 585/42 Qdot585, Pacific Orange
- D 450/50 Pacific Blue, BD Horizon V450
525/50 AmCyan

Becton Dickinson LSRFortessa SORP, San Jose, CA

Five lasers:

BLUE (488)

- A 685LP 710/50 PE-Alexa700
670LP 695/40 PerCP-Cy5.5, PerCP
- B 505LP 515/20 FITC, Calcein, Alexa488, EGFP, ZsGreen
- C 488/10 SSC** NO FLUORESCENCE ON THIS DETECTOR

RED (641)

- A 750LP 780/60 APC-Cy7, Alexa750, APC-H7
- B 685LP 730/45 Alexa700, APC-Cy5.5, APC-Alexa700
- C 670/30 APC, Alexa633, Alexa647

YELLOW-GREEN (561)

- A 750LP 780/60 PE-Cy7
- B 685LP 710/50 PE-Cy5.5
- C 635LP 660/40 PE-Cy5, 7AAD
- D 600LP 610/20 PE-Texas Red, PI, Alexa594, PE-Alexa640, RFP, mCherry
- E 582/15 PE, DsRed

UV (355)

- A 505LP 525/50 Indo-1 (Blue)
635LP 670/30 Side Populations
- B 450/50 Hoechst, DAPI, Alexa350, Live/Dead Blue, Indo-1 (Violet)

Violet (407)

- A 685LP 710/50 Qdot705
- B 635LP 670/30 Qdot655
- C 600LP 610/20 Qdot605, Pacific Orange
- D 570LP 585/42 Qdot585, Pacific Orange
- E 505LP 525/50 AmCyan, Horizon V450
575/26 mOrange
585/42 dTomato
- F 450/50 Pacific Blue, BD Horizon V450

Apogee A50 Micro, Hemel Hempstead, UK

One laser:

BLUE (488)

- Green 525-50nm FITC, Calcein, CFSE, A488, EGFP
- Orange 575-30nm PE, PE-Cy5
- Red 680-35nm PerCP, PerCP-Cy5.5, PerCP-ef710

- DRed LWP740nm PE-Cy7

Data is acquired as FCS 3.0 using the following software:

BD FACSDiva, Becton Dickinson, San Jose, CA (Aria II)

BD FACSDiva, Becton Dickinson, San Jose, CA (LSRFortessa)

Data is acquired as FCS 3.1 using the following software:

BD FACSDiva, Becton Dickinson, San Jose, CA (LSR II)

Histogram Software, Apogee Flow Systems, Hemel Hempstead, UK (Apogee A50 Micro)

Data can be analyzed by any 3rd party Flow Cytometry Software utilizing FCS 3.0 or FCS 3.1 standards.

All data files are transferred to and stored on the network server:

smb://smb-isi1.lerner.ccf.org/flowcore (Mac)

\\smb-isi1.lerner.ccf.org\flowcore (PC)

The Flow Core provides the following software for **analysis**:

FACSDiva, Becton Dickinson, San Jose, CA

FlowJo, Tree Star, Inc.

ModFit LT V3.0, Verity Software House, Inc.

Histogram Software, Apogee Flow Systems, Hemel Hempstead, UK